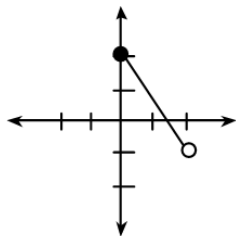


Name(s): _____

Algebra II: 1.1.1 to 1.1.4 PAIRS CHECK

1. Identify the domain and range of each graph.

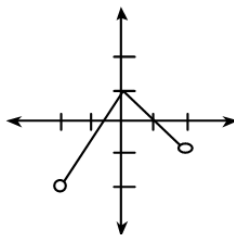
a.



Domain: _____

Range: _____

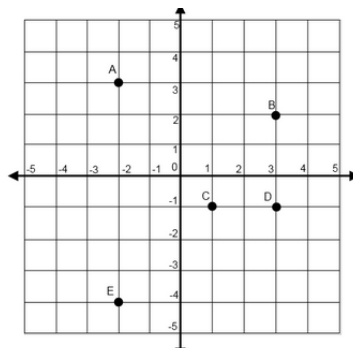
b.



Domain: _____

Range: _____

c.

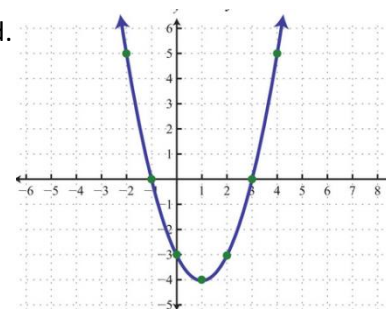


Domain: _____

Range: _____

SHOW ALL WORK!

d.



Domain: _____

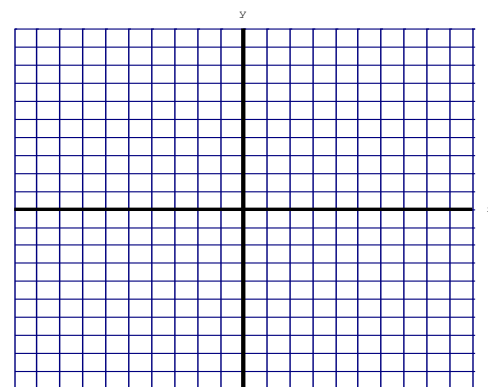
Range: _____

2. Find the x-intercepts of $3x^2 + 14x = 5$

3. Find the x-intercepts of $4x^2 - 10x = 0$

4. a. Graph the equations on the same axes $y = -x^2 - 4x + 5$ & $y = \frac{1}{2}x - 4$

b. Determine the point(s) of intersection (,) & (,)

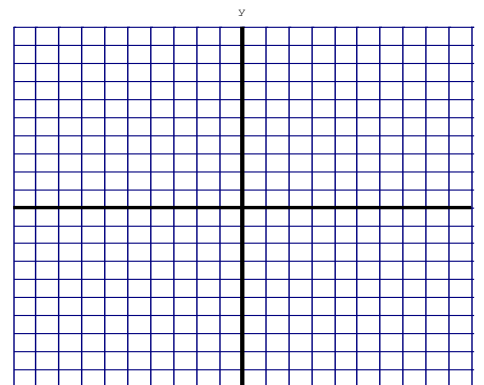


5. a. Graph the system of inequalities.

$$y > x^2 + 3x - 4 \quad \& \quad y \geq \frac{3}{4}x + 2$$

b. Is the ordered pair (2, 3.5) a solution to the system? _____

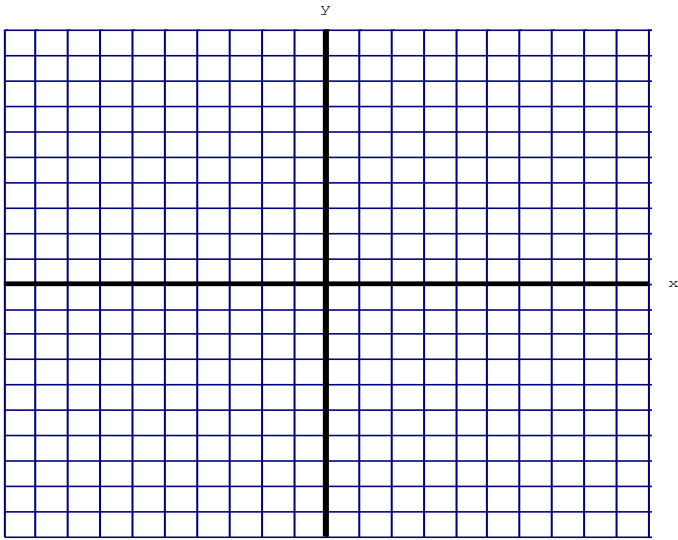
c. Is the ordered pair (0, 0) a solution to the system? _____



6. Sketch a complete graph of the following equation.

Be sure to label the graph carefully so that all key points (intercepts, vertex, line of symmetry, etc.) are identified.

$$y = 3x^2 + 5x - 2$$



Domain: _____

Range: _____

7. If $f(x) = x^2 - 3x - 4$, find:

SHOW ALL WORK!!!

a. $f(0) =$ _____

b. $f(-2) =$ _____

c. $f(x) = 0$ _____

d. $f(x) = 14$ _____